

NAME:	T#:	DATE:

8-Semester Guaranteed Program

Rev. 2/3/2015

# 2015-2016 Degree Map-Bachelor of Science in Computer Science

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at http://www.atu.edu/academics/catalog/.

Possible careers include: Computer and Information Systems Manager, Computer Programmer, Computer Systems Analyst, and Web Administrator

Sample Schedule	Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013-Comp   (ACTS=ENGL 1013)	3	#	
MATH 2914- Calculus I (ACTS= MATH 2405)	4		#C or > required for Gen Ed. Milestone
U.S. History/Government	3		
TECH 1001-Orientation to the University	1		

#Remedial Courses (if applicable):ENGL 0303 ENGL 0404 READ 0103 MATH 0903

COMS 1403- Orientation to Computing, Info, & Tech Mileston COMS 1411- Computer and Information Science Lab Milestone 15 GPA Total hours

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
Social Sciences	3		
MATH 2924- Calculus II (ACTS= MATH 2505)	4		Milestone
COMS 2003- Microcomputer Applications	3		Prerequisite: COMS 1003
COMS 2104- Foundations of Computer Prog. I	4	#	Milestone
Total hours	17	GPA	

Semester 3	Hrs.		Semester 3
ELEG 2134/2130- Digital Logic Design/ Lab	4		
Fine Arts & Humanities	3		
COMS 2203- Foundations of Computer Prog II	3		Milestone
COMS 2903-Discrete Structures	3		Milestone
Total hours	13	GPA	

Semester 4	Hrs.		Semester 4
ENGL 2053-Technical Writing (ACTS=ENGL 2023)	3		
Science Sequence I (excluding BIOL)*	4		
COMS 2213- Data Structures	3		Milestone
COMS 2223- Computer Organization and Prog.	3		
COMS 3913- Advanced Discrete Structures	3		
Total hours	16	GPA	COMS ADVISOR ASSIGNED

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed at http://acts.adhe.edu/

## Fine Arts and Humanities

ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Introduction to Music (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) ENGL 2173 Introduction to Film JOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)

ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) FNGL 2023 Honors World Literature

PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2043 Honors Introduction to Philosophy

#### U.S. History & Government

HIST 1903 Survey of American History HIST 2003 United States History to 1877 (ACTS=HIST2113)

HIST 2043 Honors United States History to 1877

HIST 2013 United States History from 1877 (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003)

### Speech Courses

SPH 1003 Intro. to Speech Com. (ACTS=SPCH1003)

SPH 2003 Public Speaking

SPH 2173 Business and Professional Speaking

Prerequisites (if applicable):MATH 1914(ACTS=MATH 1305)	OR MATH 1203(ACTS=MATH1203),	COMS 1003(ACTS=CPSI1003)

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Semester 5	Hrs.	Grade	Semester 5
Science Sequence II (excluding BIOL)*	4		
MATH 3153- Applied Statistics I	3		
COMS 2703/2700- Networks and Architecture/LAB	3		
COMS 3213- Adv. Data Structures and Algorithm Design	3		
COMS 3233- Data Design and Implementation	3		
Total hours	16	GPA	

Semester 6	Hrs.		Semester 6
Fine Arts & Humanities	3		
SPH 2173- Business and Professional Speaking	3		No substitutions allowed
COMS 3703- Operating Systems	3		
COMS 4163- Personal Software Engineering	3		
COMS 4703/4700- Data Comms. and Networks/LAB	3		
Total hours	15	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.		Semester 7
Social Sciences	3		
MATH 4003- Linear Algebra I	3		
COMS 3053- Implications of Technology on Society	3		
COMS 4033- Systems and Analysis Design I	3		
COMS 4103- Organization of Programming Languages	3		
Total hours	15	GPA	

Semester 8	Hrs.		Semester 8
COMS 4043- Systems Analysis and Design II	3		
COMS 4403- Compiler Design	3		Graduation Requirements:
COMS 4053, 4063 or approved MGMT elective	3		Min. hours 3000-4000 level courses: 40
Math or Science Elective (2000-4000 level)	2		No more than 4 PE activity hours
General Elective (3000-4000 level)	2		Min. hours required:120
Total Hours	13	GPA	2.00+ GPA

General Electives: 2 hrs. (3000-4000 level)

\*Science Sequence: PHYS 2014/2000 & 2024/2010 or PHYS 2114/2000 & 2124/2010

# indicates a "C" or better is required

HIST 1503 World Civilization to 1500 (ACTS=HIST1113) HIST 1513 World Civilization since 1500 (ACTS=HIST1123) HIST 1543 Honors World Civilization to 1500 HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 2043 Honors U.S. History to 1877 HIST 1903 Survey of American History POLS 2003 American Government (ACTS=PLSC2003)

ECON 2003 Principles of Economics I (ACTS=ECON2103)

ECON 2103 Honors Principles of Economics I

#### Social Sciences

ECON 2013 Principles of Economics II (ACTS=ECON2203) SOC 1003 Introductory Sociology (ACTS=SOCI1013) PSY 2003 General Psychology (ACTS=PSYC1103) ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013) ANTH 2003 Cultural Anthropology (ACTS=ANTH2013) GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)

AMST 2003 American Studies